

MATERIA MEDICA.

- I. Explain what influences modify the ordinary action of medicines.
- II. Yellow Bark, where obtained, and from what species; the use and dose of Quin Sulph, and how can its purity and freedom from Cinchonine be ascertained?
- III. Describe the actions, uses, doses, and modes of Administration of Hg. Hey. St. and Mo.
- IV. Chloroform, its Sp. gr., tests for purity, therapeutics, and modes of administration.

SURGICAL ANATOMY.

1. Give the boundaries and contents of the superior carotid triangle.
2. At what point would you ligate the femoral artery, and why; what dangers are to be avoided; give the course and relations of the vessel in its entire extent, naming its branches.
3. Name the parts successively divided in the lateral operation of lithotomy, and what structures to be avoided.

OPERATIVE SURGERY.

1. State the causes, evils to be apprehended, and treatment of fractures of the patella.
2. Diagnose and treat hydrocele of the tunica vaginalis testis in the male adult.
3. Diagnose and treat a case of dislocation of the radius and ulna backwards at the elbow joint.
4. Give the diagnosis of stone in the bladder, and describe the present methods of treatment for removal of the same.
5. Describe the various dislocations of the head of the humerus, and modes of reduction.
6. Describe the operation for resection of the elbow joint.

SURGICAL PATHOLOGY.

1. Describe the changes which take place in the formation of a well-marked sinus.
2. Describe the changes which must take place in the formation of the various forms of fistula in ano.
3. What are the differences between Caries and Necrosis, and describe the process adopted by nature in removing a necrosed bone.

PRACTICE OF MEDICINE.

1. State the principles of treatment in inflammations of serous membranes, and point out the course to be pursued in order to remove entirely the products of that inflammation.
2. Give directions for the treatment of Typhoid Fever (Hygienic and Therapeutic) pointing out any indications requiring special remedies.
3. Give the symptoms of Sporadic and Epidemic Dysentery, with definitions of the terms and treatment.
4. What are the symptoms of Acute Bronchitis, give the physical signs of the disease, the causes of these signs, the duration of the disease, prognosis as it occurs in the infant, adult and aged, and general directions.

MIDWIFERY.

1. Give the symptoms and treatment of abortion through its several stages.
2. Describe symptoms and treatment of apoplectic puerperal convulsions.
3. State symptoms and treatment of unavoidable hemorrhage.
4. Describe a case where the use of the forceps is indicated.
5. What should be especially guarded against in applying the forceps?

CHEMISTRY.

1. Give the symbols, combining numbers, and properties, of the Halogens, and describe generally the mode of separating them from the corresponding Haloid salts.
2. Describe the preparation and properties of Caustic Soda, Phosphorous, Sulphurous acid, and Phosphoric acid.
3. Give the general formula for alcohols, and briefly describe the composition and preparation of the principal acids derived from them.
4. What are compound ammonias, give the names and composition of three or four.
5. Give composition properties, and general modes of preparation of the principal vegetable acids.
6. Describe briefly the preparation and composition of Ether, Hydrocyanic acid, absolute Alcohol, and Bisulphide of Carbon.
7. How many grains of Bicarbonate of Potash are required to saturate 200 grains respectively of Tartaric and Citric acid?

PHYSIOLOGY.

1. Enumerate the different digestive fluids food in its passages from above downwards meets with, and describe their action on alimentary substances in the different regions of the digestive apparatus.
2. In what manner is the absorption of digestive fluids accomplished, and by what different routes do the fatty acid and albuminous matters enter the circulation?
3. Give the constituents of urine, also the different views of Physiologists on urino toxæmia and the usual effects of the blood poison on the great nervous centres.
4. Describe the anatomical peculiarities of the liver, and give the changes effected on the blood supplied by the Portal system.